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Lightning Reference Bibliography

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Foreword

In 1937, the AIEE Lightning and Insulator Subcommittee published the AIEE Lightning Reference Book in which were reproduced more than 200 of the important papers on lightning and lightning protection published in English during the period 1918–1935. With a view to the publication of a second such book, the Subcommittee in 1944 began to review papers published after 1935. By 1945, it was found that the costs of publication were prohibitive, and the project for the publication of the Second AIEE Lightning Reference Book was dropped.

The preparatory work on the book showed that many valuable studies of lightning and allied subjects had been made and that many hundreds of papers had been published since 1935. Therefore, the work of review and listing was continued for papers published through 1949 in order that a bibliography might be published which would be valuable to those working on problems of lightning and lightning protection.

The bibliography is composed principally of references on lightning and related topics published from January 1, 1936 to December 31, 1949, in most of the better known English-, French-, and German-language journals on electrical engineering or physics. It also lists those papers and books about lightning phenomena which came to the attention of Subcommittee members from sources of information not systematically searched by the Subcommittee. Included in the bibliography are the titles of about 750 articles or books and the names of about 550 authors.

The Bibliography consists of two principal parts—the Subject Section and the Author Section. The Subject Section is subdivided into 18 classifications and each of the references is listed under only one of these classifications. The single listing is a practical compromise for keeping the bibliography within reasonable size and cost and yet make it relatively easy for the user to find any one of the many items included. The items under each classification have been listed alphabetically on the basis of their titles.

The title of each entry in the Subject Section is given exactly as printed in the original publication, if in English. If a listed paper or book is in French or German, the title has been translated into accepted United States terminology and the language of the original is in parenthesis following the English title. Following the title are given the usual bibliographic data on the author or authors, place, date and pages of publication. In the Author Section, the name of each of the authors is listed, with the reference numbers to his work in the Subject Section.

The Bibliography has been compiled from index cards prepared by Subcommittee members for each paper. Each index card has been checked for accuracy by the bibliography editor wherever it was possible to examine the original publication. It is expected that this precaution has kept errors at a minimum.

It is realized that some papers contain information on a number of these topics, so, when referring to the bibliography for the place of publication of a particular work, it is suggested that the user look for the title of the desired paper under the subject he believes most appropriate. If the article is not found there, it is suggested that other likely classifications be examined.

It is believed that the bibliography will be quite useful to those who wish to become acquainted with the vast literature on lightning and lightning protection. Under each classification in the Subject Section will be found much valuable material for study.

There are included in the Author Section a few misspelled names where misspelling has been detected in the original publication. The incorrect spelling included in the Author Section gives a reference to the correct spelling where known.

The following past and present members of the Subcommittee during the period 1944–1950 have participated in the work of reviewing and indexing papers for the Bibliograpy: S. K. Waldorf (bibliography editor); H. N.Ekvall; H. A. Frey; I. W. Gross; E. L. Harder; W. W. Lewis; J. T. Lusignan, Jr.; C. F. Wagner; E. R. Whitehead.

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